EDEL'SHTEYN, G.L., prof.; SMIRNOVA, Ye.Ye.; GORBUNOVA, Z.K.

Etiology of scoliosis and kyphoscoliosis. Zdrav. Kazakh. 21 no.1: 12-16 '61.

1. Iz kafedry travmatologii i ortopedii (zav. - professor G.L., Edel'shteyn) Kazakhskogo meditsinskogo instituta i Sverdlovskogo instituta travmatologii i ortopedii.

(SPINE.-ABNORMITIES AND DEFORMITIES)

EDEL'SHTEYN, G. L., prof.; UDALOVA, N. F., nauchnyy sotrudnik; GORB NOVA, Z. K., nauchnyy sotrudnik; SMIRNOVA, Ye. Ye., starshiy nauchnyy sotrudnik

X-ray characteristics of lateral curvature of the spine. Zdrav. Kazakh. no.4:19-23 '62. (MIRA 15:6)

1. Iz Sverdlovskogo Nauchno-issledovatel'skogo instituta travmatologii i ortopedii (direktor - kandidat meditsinskikh nauk Z. P. Lubegina) i Kazakhskogo meditsinskogo instituta (direktor professor R. I. Samarin)

(SPINE__ABNORMITIES AND DEFORMITIES)

ACC NR: AP6021826			13/66/000/012/0135/0	
INVENTORS: Gubin, A. I.;	Dobkina, Ye. N.;	Smirnova, Yu. A.		A No.
ORG: none				
FITLE: A solder for solder	ring of products.	Class 49, No. 183	3037	
SOURCE: Izobreteniya, pro	myshlennyye obraz	tsy, tovarnyye znal	ki, no. 12, 1966, 13	15
TOPIC TAGS: solder, solder	ring, tin, antimo	ny, copper, silver		
ABSTRACT: This Author Certain silver for soldering pr	roducts. To obtai	in soldered joints	ng tin, antimony, co	pper,
at all climatic conditions,	, the composition	is taken in the fo	ollowing percent rel	а-
at all climatic conditions, tion: antimeny 1 ± 0.3 ; co	, the composition opper 2 ± 0.3 ; si	is taken in the fo	ollowing percent rel	A-
at all climatic conditions, tion: antimeny 1 ± 0.3 ; co	, the composition opper 2 ± 0.3 ; si	is taken in the fo	ollowing percent rel	A-
it all climatic conditions, tion: antimeny 1 ± 0.3 ; co	, the composition opper 2 ± 0.3 ; si	is taken in the fo	ollowing percent rel	a- /
it all climatic conditions, tion: antimeny 1 ± 0.3 ; co	, the composition opper 2 ± 0.3 ; si	is taken in the fo	ollowing percent rel	A-
at all climatic conditions, tion: antimeny 1 ± 0.3; co	, the composition opper 2 ± 0.3 ; si	is taken in the fo	ollowing percent rel	A-

	Card 1/9		Calcabathor, S. I. and R. P. Richin, Engineers. Detection of Intercrystalline Corrocton in Alientous Alloys with the Dys Amstrant Flow Detection Method.	Carting A. Le., Condidate of Technical Sciences, and The A. Salarous. Senior Scientific Verker. On the Problem of Short-Time Testing of Bruss and Technical Contraction Creating	O'del bervesi fastuse finishes by think as see (Corresion Department of the fastuse of Thyrical Chemistry as Used) and Observation of the Pening and Planning Steinhilds Research Institute for Verting of Sections Hexals) conducted Joint research on this subject. Scientific Worker, perticipated in the work on behalf of the integral denior institute.]	Alloys to Crack Depending Open Their Composition . The Tendency of Copper 329 - Dark, O.B., Condidate of Chemical Defences. Corresion Cracking of Brass the USSN 188	'shehikov. Effect of	On the "ellimity of Magnesian Allays Toward Correct of Gertain Factors 312 Michita, T.Ma. Stress Correction of the Righ Electrical Resistance Manganese. Same Allay	Gracians of Magnesium Alloys and Protective Measures of Corrosion 209	TomenhoreE.D., Doctor of Chemical Sciences, Professor, and Y.N. Modestors, Tomenhale of Chemical Sciences. Effect of Stress on the Corresion and Foldmilals of the Magnesius-Mangacess Alloy System	T. STREES COMMODIUM OF LINEAUTHER AND SCHPEROUS ALLOES	compands: The collection contains discussions of intercrystalline correction of extantions (seed as and alters correction of extons steels, how-thiny and standars seed as an extension of extensions	FURNOR: This collection of meticles is intended for technical personnel concerned with problems of correcton of metals,	Ed.: I.A. Levin, Candidate of Technical Sciences; Ed. of Publishing House: Lil Leatichenko, Engineer; Tech. Ed.: T.D. Ell'End; Munaging Ed. for Lilerature on Neilverting and Instrument Making (Manhgist): V.T. Riberinskiy, Engineer; Editorial Board: I.A. Levin, Candidate of Technical Sciences (Chairma), V.F. Batrator, Candidate of Technical Sciences, V.M. Midformes, Candidate of Technical Sciences, and A.V. Turborskays, Candidate of Technical Sciences.	Mexhiristallitanya horroziya i korroziya amtallov v papryazhernom mostoyanii (Intercrystallina and Surase Corrosion of Metals) Moscov, Manhgis, 1900, 198 p. 3,000 coptes printed,	These I sook Exploitation SOY/\535 Tecsoyutnyy soret nauchro-tekhnicheskikh obshichesty		
--	----------	--	----------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------	----------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------	--	--

KLARK, G.E.; GOPIUS, A.Ye.; SMIRNOVA Yu.A.

Effect of climatic conditions on the corrosion cracking of brass.

Trudy Inst.fiz.khim. 8:110-129 '60. (MIRA 14:4)

(Brass--Corrosion) (Corrosion and anticorrosives--Climatic factors)

EFR/EMP(j)/EPF(c)/EWT(m)/BDS AFFTC/ASD Ps-4/Fr-4/Pc-4 RM/WW L 12979-63 ACCESSION NR: s/0020/63/150/002/0359/0360 AP3000524

AUTHOR: Zubov, P. I.; Sukhareva, L. A.; Smirnova, Yu. P.

Influence of internal stresses on "longevity" of polymer coatings TITLE:

SOURCE: AN SSSR. Doklady, v. 150, no. 2, 1963, 359-360

TOPIC TAGS: internal stresses, polymer coatings, aging

ABSTRACT: Dependence of duration on the adhesive stress of polyester coatings has been measured by optical method using automatic recording apparatus, described by P. I. Zubov and L. A. Lepilkina (Vestnik AN SSSR, no. 3, 49, 1962). Authors conclude by stating that there is a linear relationship between the duration of adhesion of a coating and internal stresses during a change in the sublayer's stresses within the limits from 30 to 8 kilograms per square cm. Orig. art. has: 3 figures and 1 formula.

ASSOCIATION: Institut fizicheskoy khimii Akademii nauk SSSR (Institute of Physical Chemistry, Academy of Sciences SSSR)

SUBMITTED: 24Jan63

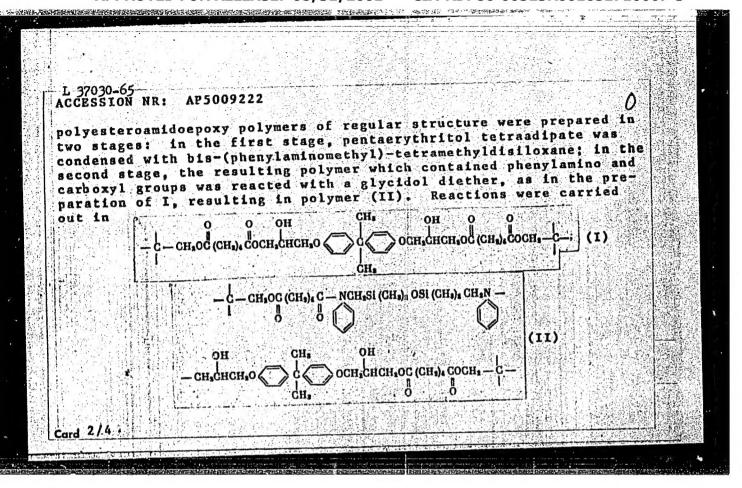
DATE ACQ: 12Jun63 NO REF SOV: 007

ENCL: 00 OTHER: 001

SUB CODF:

Card 1/1

L 37030-65 EPA(s)-2/EWT(m)/EPF(c)/EWP(v)/EPR/EPA(w)-2/EWP(j)/T Pc-4/Pab-10/Pr-4/Ps-4/Pt-10 WW/RM \$/0020/65/161/001/0099/0102 ACCESSION NR: AP5009222 AUTHOR: Andrianov, K. A. (Academician); Yemel'yanov, V. N. Sukhareva, L. A.; Smirnova, Yu. P.; Zubov, P. I. TITLE: Synthesis and physical and mechanical properties of films from polymers with regular structure SOURCE: AN SSSR. Doklady, v. 161, no. 1, 1965, 99-102 TOPIC TAGS: polymer, regular structure, regular structure polymer, epoxy polymer, polyesteroepoxy polymer, silicon containing polyesteroamidoepoxy polymer ABSTRACT: The purpose of the work was to synthesize and study polyesteroepoxyband silicon-containing polyesteroamidoepoxy polymers of a regular cyclonet structure, which could be used for coatings, lelectric insulation or as binders for glass-reinforced plastics. Polyesteroepoxy polymers were obtained by reacting pentaerythritol tetraadipate with glycidol-hydroquinone or with glycidol-diphenylolpropane ("Bisphenol A") (See I below) diethers. Silicon-containing Card 1/4



L 37030-65 ACCESSION NR: AP5009222 films on a metal surface. Polymer (III) with an irregular structure was obtained by simultaneous condensation of pentaerythritol, adipic acid and glycidol-Bisphenol A diether. Mechanical and electrical properties of I, I, and III were studied to determine the effect of the structure on these properties. The dependence of inner stresses, adhesion, and elastic modulus on the thickness of the film was found. The above mechanical properties and the tensile strength of I, II, and III and of a commercially used epoxy resin (ED-5) Doured with polyethylenepolyamine, were compared. It was found that the tensile strength of polymers with the regular structure is 20-50% higher than that of the irregular polymer, but 1.5-2 times lower than that of the commercially used epoxy resins. However, inner stresses in the coatings from the new film-forming regular polymers are considerably lower. The best physical and mechanical properties are displayed by II films, which have the maximum curing rate, minimum inner stresses and a high tensile strength and adhesion. Films from polymers with the regular structure are moisture proof. Thermal. stability of I at 200C is : Card 3/4

L 37030-65 ACCESSION NR: AP500922	2			
				1 1 6
Test duration, hr Weight loss, %		00 900 .60 4.20	the first was to be a few and a	
Electric properties we	re determined for	I and for a	olasa-rai	·Fored
plastic, in which I wa	s used as a binder.	Orig. ar	t. has: 4	for- :
plastic, in which I wa mulas, 3 graphs, and 2	s used as a binder, tables,	. Orig. ar	t. has: 4	for- [BN]
plastic, in which I wa mulas, 3 graphs, and 2 ASSOCIATION: Institut nauk SSSR (Institute o	s used as a binder tables. elementoorganiches	. Orig. ar skikh soyed	t. has: 4 Ineniy Akad	for- [BN]
plastic, in which I wa mulas, 3 graphs, and 2 ASSOCIATION: Institut nauk SSSR (Institute o Sciences, SSSR)	s used as a binder tables. elementoorganiches	. Orig. ar skikh soyed	t. has: 4 Ineniy Akad	for- [BN]
plastic, in which I wa mulas, 3 graphs, and 2 ASSOCIATION: Institut nauk SSSR (Institute o Sciences, SSSR) SUBMITTED: 29Sep64	s used as a binder tables. elementoorganiches f Organoelemental	Orig. ar skikh soyed Compounds,	t. has: 4 Ineniy Akad Academy of	for- [BN]
plastic, in which I wa mulas, 3 graphs, and 2 ASSOCIATION: Institut nauk SSSR (Institute o Sciences, SSSR) SUBMITTED: 29Sep64	s used as a binder tables. elementoorganiches f Organoelemental (Orig. ar skikh soyed Compounds,	t. has: 4 inenty Akad Academy of SUB: CODE:	for- [BN] lemii
plastic, in which I wa mulas, 3 graphs, and 2 ASSOCIATION: Institut nauk SSSR (Institute o Sciences, SSSR) SUBMITTED: 29Sep64	s used as a binder tables. elementoorganiches f Organoelemental (Orig. ar skikh soyed Compounds,	t. has: 4 inenty Akad Academy of SUB: CODE:	for- [BN] lemii

ENT(m)/EWP(v)/EWP(j)/T/ETC(m)-6 IJP(c) W./RM UR/0191/65/000/010/0031/0034 28 L 22000-66 678. 674. 06-419:677. 521. 01. 539. 219. 2 3 ACCESSION NR: AP5024504 AUTHOR: Sukhareva, L. A.; Smirnova, Yu. P.; Zubov, P. I.; Zamotova, A. V.; Khvilivitskiy, R. Ya. TITLE: Internal strain in reinforced systems based on polyester acrylate binders SOURCE: Plasticheskiye massy, no. 10, 1965, 31-34 TOPIC TAGS: fiberglass, glass cloth, epoxy plastic, polyester plastic, adhesion internal stress, bending strength, rupture strength ABSTRACT: The effect of curing conditions, binder composition and surface treatment of the reinforcing glass on the internal strain, mechanical, and adhesive properties of fiberglass was studied. Two curing rates were used--(1) gradual heating for 19 hours to 200 C and then holding at 200 C for 10 hours, and (2) heating to 200 C in 2 hours and holding for 20 hours. Glass cord treated with paraffin emulsion or with vinyltriethyoxysilane and glass cord heat treated at 400-450C were used for reinforcing. A two-component system (epoxy resin and polyester acrylate MD) or a three-component system (epoxy, MD and an unsaturate ed carboxyl-containing compound) were used as binders. Internal strain was

L 22000-66

ACCESSI ON NR: AP5024504

greater across the warp than along the warp. Greater internal strains were produced by the slower curing method. The mechanical characteristics of fiberglass cured by method (2) were generally higher. Physical-mechanical properties and internal strain were lower in fiberglass made of the three-component binder. Paraffin emulsion had little effect on internal strain, while the silane coating increased internal strain in the fiberglass made of the three-component binder. The strength properties of the fiberglass depend on the ratio of the internal strain values to the adhesion of the binder to the glass fiber surface. Fiberglass made of resin based on the carboxyl-containing compound, which has greatest internal strain and least adhesion, is weakest. Greatest strength was obtained with the three-component binder applied to glass cloth treated with vinyltriethyoxysilane, where adhesive strength exceeds 200 kg/sq cm and the glass is torn out when the sample is broken. Orig. art. has: 8 figures and 3 tables

ASSOCIATION: None

SUBMITTED: 00 NR REF SOV: 003 ENCL: 00

SUB CODE: II

OTHER: 000

Card 2/2 BK

CVY: TRONG . . (Lendremed); LMHRNOVA, Z.A. (Lenderad); TARASTRA, N.N. T.1); CHVENSKAYA, A.C. (Lendegrad)

12 plasmosis in a 3 /2-month-old infant. Arkh.pat. 27 n. 1876-79 (MIRA 18:8)

I. Lubiratoriya patologii nerwoy sistemy (zav. - prof. Yu.M. Thebotimskiy) otdela patologicheskoy anatomii (zav. - akadomik U.W.Anichkov) Instituta eksperimental noy meditsiny AMM SSSR; Pstologoanatominheskoye otdeleniye (zav. - Z.A.Smirnova) i detskoye otdeleniye (zav. N.M.Tarasova) Ieningradskoy Oblastnoy klinicheskoy bolinitsy; kafedra pakhiatrii Voyenno-meditsinskoy ordena lenina akademii imenl S.M.Kirova (zav. - prof. A.A.Fortnov).

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710007-3

POHOMAREV, A.A.: SMITHOVA, Z.A.

Anatomicoelectrocardiographic parallels in chronic cor pulmonale. Vrach. delo no.1:46-48 Ja 64 (MIRA 17:3)

1. Kafedra gospital'noy terapii (nachal'nik - deystvitel'nyy chlen AMN SSSR, prof. N.S. Molchanov) Voyenno-meditsinskoy akademii imeni S.M.Kirova i patologoanatomicheskoye otdeleniye (zav. - Z.A. Smirnova) Leningradskoy oblastroy klinicheskoy bol'-nitsy.

MALEYEV, Yevgeniy Fedotovich; RUDICH, K.N., red.; SMIRNOVA, Z.A., red.; SHMAKOVA, T.M., tekhn. red.

[Volcanoclastic rocks] Vulkanoklasticheskie gornye porody. Moskva, Gosgeoltekhizdat, 1963. 167 p. (MIRA 16:12) (Volcanic ash, tuff, etc.)

SHORDRBA, P.A. prof.; CHINTOVA, Z.A.; GOLGYH, V.P.

Clinical variations of amyloidesis. Sov. med. 27 no.11:19-24 N 1e3 (MTAA 18:1)

1. In propedenticheskoy terapenticheskoy kliniki (ispolnyayush shiy obyazannesti zaveduyush hego - prof. M.L. Shcherba) I Leningradskogo meditsinskogo instituta imeni I.P.Pavlova i Leningradskoy oblastnoy klinicheskoy bol'nitsy (glavnyy vrach V.B.Suknobskiy).

NIKOLAYEV, Nikolay Ivanovich; SMIRNOVA, Z.A., red.; GUROVA, Q.A., tekhn. red.

[Recent tectonic movements and their evidence in the structure and relief of the territory of the U.S.S.R.] Neotektonika i ee and relief of the territory of the U.S.S.R.] Neotektonika i ee vyrazhenie v strukture i rel'efe territorii SSSR; voprosy revyrazhenie v strukture i rel'efe territorii struktu

SIL'VESTROY, V.P.; SMIRNOVA, Z.A.

Errors in the diagnosis and treatment of some complications of antibacterial therapy. Kaz.med.zhur. no.4:22-27 Jl-Ag '62. (MIRA 15:8)

1. Kafedra gospital'noy terapii (nachal'nik - deystvitel'nyy chlen AMN SSSR, prof. N.S.Molchanov) Voyenno-meditsinskoy ordena Lenina akademii imeni S.M.Kirova i Leningradskaya oblastnaya klinicheskaya bol'nitsa (glavnyy vrach - A.P.Yegorova).

(ANTIBIOTICS--TOXICOLOGY)

SMIRNOVA, Z.A.

Two cases of gastrogenic tetany. Sov.med. 25 no.2:136-138 F '61. (MIRA 14:3)

1. Iz kliniki gospital'noy khirurgii (zav. - zasluzhennyy deyatel' nauki Dagestanskoy ASSR prof.M.T.Nagornyy) Dagestanskogo meditsinskogo instituta (direktor - dotsent M.M.Maksudov) i gorodskoy klinicheskoy bol'nitsy (glavnyy vrach B.E.Kot).

(TETANY) (PYLORIC STENOSIS)

5/070/62/007/005/008/014 E132/E460

Mokiyevskiy, V.A., Smirnova, Z.A., Afanas'yev, I.I. Joining crystals of lithium fluoride by a "dry" method PERIODICAL: Kristallografiya, v.7, no.5, 1962, 768-772 + 1 plate AUTHORS:

When two polished crystal surfaces are brought into contact, processes connected with the ordering of the structure annealing takes place. Hence, birefringence connected with the deformation takes place on joining the surfaces together, because of the loading on surfaces of small radius of curvature, boundary surface is rarely found. then slipping occurs and the wide range of orientations of the blocks leads to the formation of a large number of negative Large radii of curvature of the surfaces brought together and parallel orientation of the components appear to be the conditions for successful welding. crystals at the interface. The loading necessary has to be determined experimentally and the uniform distribution of load is one of the necessary conditions for successful joining. but for the best results subsequent annealing is more important Card 1/2

SMIRNOVA, Z. A.

Cand Med Sci - (diss) "Medicinal prophylaxis of increased blood loss in subsequent and early post-natal period." Khar'kov, 1961. 15 pp; (Khar'kov State Med Inst); 230 copies; free; (KL, 7-61 sup, 262)

SMIRNOUA, Z.A.

Abs Jour

USSR/Meadow Cultivation.

: Ref Zhur - Biol., No 21, 1958, 95876

Author : Smirnova, Z.A.

Inst : Petrozavodskiy University.

Title : Influence of Mineral Fertilizers on Pasture Grass Stand.

L.

Orig Pub : Sb. nauchn. rabot stud. Petrozavodskogo un-ta, 1957, vyp.

4, 111-120.

Abstract : No abstract.

Card 1/1

"APPROVED FOR RELEASE: 08/31/2001

CIA-RDP86-00513R001651710007-3

Dokukina, A. F., Yegorova, Ye. I., Kazennikova, G. V., Katentik. B., Rochechkov, K. A., Smirnova, Z. A., Talatayeva, T. V.

Time:

Sinthesis and polymerization (engolymerization of fluoronmobalitude styrenes with vinyl monomers

pasterization of the copolymers acyedinentya, v. 4, no. 6, 1962, ad5
dom

TEXT: This pager describes the authors' experiments in the production and
characterization of the copolymers of a, 6, 6 -trifluoro styrene with 2.5characterization of the copolymers of a, 6, 6 -trifluoro styrene with
styrene and methyl methacrylate o-, m - and p-methyl-a, 6, 8
tirthuoro styrene with attrene, a, 6-difluoro-Monitoro styrene with
styrene, and 2.5-difluoro-Monitoro styrene with
styrene, and 2.5-difluoro-difluoro-difluoro-deduced acided copolymers
ounsisted of 80 - 85, 5 water, 2.5 causisfier (codius steams acided dropund 0.5) persulfate initiator. The monomer mixture, which was added dropund offer heasing to 80 - 90°C, contained associochtyric acid dinitrile
wince after heasing to 80 - 90°C, contained associochtyric acid dinitrile
value and the styrene and properties are given in Table 2. The heat
Card 1/0

Synthesis and polymerization ...

3/193/62/004/006/016/026

B124/B199

resistance of the copolymer. An exception is that of a,p-diffuore atyrens content in the copolymer. An exception is that of a,p-diffuore by-collore atyrens with styrene, the heat resistance of which is 4°0 higher than that of polystyrene product resistance of which is 4°0 higher than that of polystyrene product ander similar conditions. This is probably due to the lew concentration of substituted higherene (16 noles) in the copolymer, and to the extremely low molecular weight of the product (14/ = 0.09). There are 2 tables. The English-language references are D. Livingstons, J. Polymer Sci., 20, 405, 1956; M. Prober, J. Amer. Ches. Soc., 75, 968, 1953.

AGHORITATION: Institut symbosomolekulyarnykh soyndinenty AN SSSR (Institute of high-relecular Compounds of the AS USSR)

SUBSTITUDE April 11, 1961

Table 2: Copolymeria on time, yield, composition and intrinsic viscosities of the beneaus solutions of copolymer (molecular (2) copolymer (ield, %) (0) composition of copolymer (molecular (E) copolymers of Card 2/\$\varepsilon\$)

ACCESSION NR: AP4042184

\$/0190/64/006/007/1187/1189

AUTHOR: Yegorova, Ye. I.; Smirnova, Z. A.; Dokukina, A. F.

TITLE: Synthesis and polymerization (copolymerization) of fluorinated styrenes. III. Preparation and properties of copolymers of styrenes fluorinated in the vinyl group with vinyl monomers

SOURCE: Vy*sokomolekulyarny*ye soyedineniya, v. 6, no. 7, 1964, 1187-1189

TOPIC TAGS: copolymer, copolymerization, fluorinated styrene, vinyl monomer, thermoplastic copolymer, dielectric copolymer, heat-resistant copolymer, alpha.beta.beta-trifluorostyrene—2.5-dimethylstyrene copolymer

ABSTRACT: The following new copolymers of fluorinated styrenes with vinyl monomers have been synthesized: $\alpha, \beta, \beta-t$ rifluorostyrene with styrene, 2.5-dimethylstyrene, or 2.5-difluorostyrene; 4-methyl- α , $\beta, \beta-t$ rifluorostyrene with styrene or 2.5-dimethylstyrene; and 3-methyl- $\alpha, \beta, \beta-t$ rifluorostyrene, β -fluorostyrene, or α -(difluoromethyl) styrene with styrene. The copolymerization was conducted either in emulsion at 60C (initiators, potassium persulfate and Card $\frac{1}{2}$

ACCESSION NR: AP4042184

azobisisobutyronitrile), or in the liquid phase: 1) with a stepwise increase of temperature from 50 to 170C or 2) at 60C (initiator, zobisisobutyronitrile). The preparation methods, composition, and properties of the copolymers are described. The synthesized copolyrorganic solvents. Emulsion copolymerized products have a higher molecular weight and a higher heat resistance than those copolymerized by α,β,β-trifluorostyrene—2,5-dimethylstyrene copolymers. The instructions during the discussion of the study and to K. A. Kocheshkov, 2 tables.

ASSOCIATION: Leningradskiy polytekhnicheskiy institut im. M. I. Kalinin (Leningrad Polytechnic Institute)

SUBMITTED: 09Apr62

ATD PRESS: 3055

ENCL: 00

SUB CODE: GC, MT

NO REF SOV: 004

OTHER: 000

Card 2/2

L 31155-66 ACC NR: AP6003423

at various compositions were investigated. Graft copolymers of styrene with styrene copolymers of I, II, and III were produced. Investigated copolymers were prepared by free radical polymerization in bulk, in emulsion, and in solution, as described by M. M. Koton, K. A. Kocheshkov, I. A. Gorshkova, A. F. Dokukina, and Ye. M. Panov (Kokl. AN SSSR, 158, 5, 1120, 1964). Solubility, thermal stability, viscosity limits, and density of copolymers were determined, and their IR spectra are described. Copolymers obtained in bulk process were insoluble and thermally unstable, those prepared in solution were soluble and more thermally stable (100C), while the emulsion process yielded insoluble and thermally very stable products. The authors express their gratitude to K. A. Kocheshkov and Ye. V. Kuvshinsky for valuable comments during evaluation of this work. Orig. art. has: 1 table, 2 figures, and 3 structures.

SUB CODE: 07/ SUBM DATE: 25Feb65/ ORIG REF: 003

Card 2/2 ____

ACC NR: AP6000183	SOURCE CODE: UR/0032/65/031/012/1483/1485	
AUTHOR: Anan'yeva, G. V.;	Smirnova, Z. F.	
DRG: none	51	
21,44,5	of the single crystal aggregates	
SOURCE: Zavodskaya laborato	oriya, v. 31, no. 12, 1965, 1483-1485	
neter, cystol structur, x	x ray, lattice defect, sapphire, ruby, fluorite, gonio-	
fractometer. The object of investigation of structural fluorite. X ray spectra of diffractometer in such a way of the GUR-3 goniometer. The company horizontal deflections	the study was to determine the feasibility of a detailed imperfections in single crystals of sapphire, ruby and single crystals were taken by placing them in a URS-50I that the single crystal surface coincided with the axis are crystal surface was illuminated with an x ray beam with extion and an unlimited vertical deflection. The x ray pho-	
fractometer. The object of investigation of structural fluorite. X ray spectra of diffractometer in such a way of the GUR-3 goniometer. The degree horizontal deflectographs were taken successivith meanest to the axis of	imperfections in single crystals of sapphire, ruby and single crystals were taken by placing them in a URS-50I that the single crystal surface coincided with the axis	
fractometer. The object of investigation of structural fluorite. X ray spectra of diffractometer in such a way of the GUR-3 goniometer. The degree horizontal deflectographs were taken successivith meanest to the axis of	imperfections in single crystals of sapphire, ruby and single crystals were taken by placing them in a URS-50I that the single crystal surface coincided with the axis are crystal surface was illuminated with an x ray beam with ction and an unlimited vertical deflection. The x ray photology during 2-3° vertical rotation of the crystal sample the GUR-3 goniometer. During the rotation of a sample	

		ction point. with respect t							
		details of th							
UB CODE:	20/	SUBM DATE:	00/	ORIG REF:	001/	OTH REF:	004		
								>	
			•	3					
	-	•		•		•			
			•		•				
							. •		
			•						_

BERZAK, M.A.; BRATEL:, I.N.; KAGANOVA, Ye.I.; PLOTITSINA, K.M.; SMIRNOVA, Z.M.

Experience in the detection of cardiovascular pathology in the compound examination of thoracic organs in rural population. Sov. med. 28 no.7:93-96 Jl 164. (MIRA 18:8)

l. Bol'shechernigovskaya sel'skaya bol'nitsa (glavnyy vrach Z.M. Smirnova) Kuybyshevskoy oblasti. Nauchnyy rukovoditel' - prof. V. V. Zodiyev.

LUKASHENKO, N.P.; BRZHESKIY, V.V.; SMIRNOVA, Z.M.

Study on Alveococcus multilocularis (Echinococcus multilocularis) Leuckart, 1863 chromesomes. Preliminary report. Med. paraz. i paraz. bol. 34 no.3:351-352 My-Je 165.

(MIRA 18:7)

1. Institut meditsinskoy parazitologii i tropicheskoy meditsiny imeni Ye.I. Martsinovskogo Ministerstva zdravookhraneniya SSSR, Moskva.

SMIRNOVA, Z.S.

Results of the investigation of the air of an oil and gas area as to the presence of hydrosarbon-oxidizing bacteria. Mikrobiologiia 32 no.1:126-250 *63 (MIRA 17:3)

1. Vsesoyuznyy naculmo-isoledovateliskiy geologo-razvedochnyy neftyanoy institut, Mrskva.

CCESSION NR: AP4037056	s/0073/64/030/005/0499/0502	
UTHOR: Sarzhevskaya, V. P.; Kornev, K. A.	; Smirnova-Zamkova, 8. Ye.	
ITIE: Polyamides with aromatic and heteroascd on furan-2,5- and thiophene-2,5-dicardiamines	cocyclic rings in the chain. IX, Polyamides choxylic acids and some aryl -aliphatic	
SOURCE: Ukrainskiy khimicheskiy zhurnal,	v. 30, no. 5, 1964, 499-502	
COPIC TAGS: furan polyamide, thiophene polyamide, thiophene ring, aliphatic diam	lyamide, aromatic ring, heterocyclic ring, ine	
the substitution of the furan for the unit in notably lowered melting point of polyam present article is a study of the same sit	ides based on aliphatic diamines. The uation with aryl -aliphatic diamines.	relate 1498 th
Polyamides were prepared by interplace for aryl -aliphatic diamines and chloroanhydri dicarboxylic acids. The following diamine p-xylydenediamine, 2,5-di-(aminomethyl)-p-	s were used in these condensations:	·

GROMOV, S.A.; SMIRNOVA, Z.A.

Clinical aspects and histopathology of aneurysms in the vessels of the brain. Vop. psikh. i nevr. no.9:118-123 '62. (MIRA 17:1)

 Leningradskaya oblastnaya klinicheskaya bol'nitsa (glavnyy vrach - A.P. Yegorova).

KOROLEV, Aleksey Vasil'yevich; SHEKHTMAN, Favel Aleksanirovich; VOL'FSON, F.I., retsenzent; YERMAKOV, N.F., red.; SMIRNOVA, Z.A., ved. red.

[Structural conditions governing the distribution of postmagmatic ores] Strukturnye usloviia razmeshcheniia poslemagmaticheskikh rud. Moskva, Nedra, 1965. 506 p. (MIRA 18:4)

HLARIONOV, V.V.; SMIRNOVA, Z.G.; KNYAZEVA, K.P.

Partial equilibrium pressures of HF, SiF, and H₀0 above aqueous solutions. Zhur.prikl.khim. 36 no.2:237-241 F '63. (MIRA 16:3)
(Hydrofluoric acid) (Silicon fluoride) (Vapor pressure)

SMIRNOVA, Z.G.; ILLARIONOV, V.V.; VOL'FKOVICH, S.I.

Heats of formation of fluorapatite, hydroxylapatite, and tricalcium phosphates (x - and /2 -modifications). Zhur. neorg. khim. 7 no.8:1779-1782 Ag '62. (MIRA 16:6)

1. Nauchno-issledovatel'skiy institut udobreniy i insektofungisidov.

(Apatite) (Hydroxylapatite) (Calcium phosphate) (Heat of formation)

SMIRNOVA, Z.I.

Experience in using various types of resilient covering. Tekst. prom. 16 no.9:24-26 S 156. (MLRA 9:12)

 Zaveduyushchiy TSentral'noy laboratoriyey Glavivkhlopproma. (Spinning machinery)

SMIRNOVA, Z.I.

Testing reconditioned polyvinyl chloride couplings. Tekst.nron. 18 (MIRA 11:4) no.4:56-57 Ap '58.

1. Zaveduyushchiy TSentral'noy laboratoriyey pri tekstil'nom upravlenii Ivanovskogo sovnarkhoza.

(Spinning machinery--Maintenance and repair)

建加强的形式化压力系统的运动的形式 化多次次次元 电影 电影 医外侧 医外侧部 医克拉特氏病 医多种性神经病 医多种性神经病的

HELYAYEVSKIY, N.A.; VARGIN, N.I.; IVANOV, Yu.A.; SMIRNOVA, Z.I.

Results of the conference of geologists of the European part of the U.S.S.R. Sov. geol. 2 no.6:138-142 Je '59. (MIRA 12:12)

1.Ministerstvo geologii i okhrany nedr SSSR. (Geology)

THE PROPERTY ASSESSMENT AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY ADDRESS OF THE PROPERTY AND ADDRESS OF THE PROPERTY ADDRESS OF THE

SMIRNOVA, Z.I.

Necessity for increasing the effectiveness of geophysical prospecting for ore deposits. Sov.geol. 4 no.11:174-177 N '61. (MIRA 14:11)

1. Ministerstvo geologii i okhrany nedr SSSR. (Prospecting)

MATVEYEVA, N.H.; SMIRNOVA, Z.M.; KUSTOVA, Z.M.; VASIL'YEVA, M.V.; GEL'CHINSKIY, B.Ya.; OZEROV, D.K.; MANUKHOV, A.V.; GOL'TSMAN, F.M.; PETRASHEN', G.I., red.; VOLKHOVER, R.S., tekhn. red.

[Papers on the quantitative study of seismic wave dynamic] Materialy kolichestvennogo izucheniia dinamiki seismicheskikh voln. Pod. rukovodstvom i red. G.I.Petrashen'. [Leningrad] Izd-vo Leningr. univ. Vol. 1. 1957. 420 p. Vo.2. 1957. 152 p. (MIRA 11:2)

1. Akademiya nauk SSSR. Matematicheskiy institut, Leningradskoye otdeleniye.
(Seismometry)

AGEYEV, N.V.; SMIRNOVA, Z.M.

Stability of the beta phase in titanium-manganese alloys. Titan
i ege splavy no. 1:17-24 '58.

1. Institut metallurgii AN SSSR.

(Titanium-manganese alloys-Metallography)
(Phase rule and equilibrium)

sov/78-4.5-26/46 Ageyev, N. V., Smirnova, Z. M. 5(2), 18(4) Conditions for the Stabilization of the 3-Phase AUTHORS: TITLE

in Alloys of Titanium-Molybdenum-Manganese (Usloviya stabilizatsii A-fezy v splavakh titan-molibden-

-marganets)

Zhurnal neorganicheskoy khimii, 1959, Vol 4, Nr 5, PERIODICAL:

pp 1100-1105 (USSR)

The conditions for the stabilization of the phase and the stability of the metastable state in three-component alloys consisting of magnesium-thermal titanium with molybdenum ABSTRACT: and manganese were investigated. For the purpose of producing the alloys, magnesium-thermal titanium, electrolytic

manganese, and molybdenum were used as initial materials. The compositions of the initial materials are given in table 1. The alloys were produced in an electric arc furnace with tungsten electrodes in a helium atmosphere. The alloys were investigated by metallographical and X-ray analyses. Hardness and microhardness were determined. Figure 1 shows the phase

composition of the titanium-molybdenum-mangarese alloys. The phase composition of titanium molybdenum manganese alloys

Card 1/4

Conditions for the Stabilization of the Barbhase in Alloys of Titanium-Molybdenum-Manganese

507/78-4-5-26/46

hardened at temperatures of 700°, 800°, 900° and 1000° is shown by figure 2 (a - g). Stabilization of the \$\beta\$-phase in hardened alloys was investigated; a diagram was constructed and is shown in figure 3. In alloys containing a minimum of 3.76 % manganese and 26.95 % molybdenum, or 11.78 % molybdenum and 15.89 % manganese the \$\beta\$-phase is stabilized by hardening at 700°. In other alloys, which were hardened at 700°, the structure of the \$\mathbb{C}\$- and \$\beta\$-phase is formed. In alloys with the minimum content of 3.61 % manganese and 12.81 % molybdenum and 7.63 % manganese and 1.59 % molybdenum the \$\beta\$-phase is stabilized by hardening at 800°. In alloys with a lower content of molybdenum and manganese the structure of the \$\mathbb{C}\$-phase is formed by hardening at 800°. The microstructure of these alloys is shown by figure 4 (a - b). In alloys with 3.19 % manganese and 9.51 % molybdenum, 4.50 % manganese and 1.43 % molybdenum, 5.02 % manganese and 4.39 % nolybdenum the \$\beta\$-phase is formed.

Card 2/4

Conditions for the Stabilization of the \(\beta\)-Phase in Alloys of Titanium-Molybdenum-Manganese

sov/78-4-5-26/46

The ω -phase was uniquely determined by X-ray analyses and by means of an electron microscope. The X-ray pictures of the alloys of titanium with 7.63 % manganese and 1.59 % molybdenum after hardening at 8000 are shown by figure 5, and those of alloys of titanium with 5.02 % manganese and 4.59 % molybdenum after hardening at 900° are shown by figure 7. On the X-ray pictures the lines of the W-phase are visible. In alloys containing 2.08 % manganese and 1.95 % molybdenum, and 3.07 % manganese and 3.74 % molybdenum the phase decays into the dephase by hardening at 900°. The of -phase vanishes by hardening of the samples at a temperature of 1000° C. The stability of the β -phase when heated within the temperature interval of 100 - 600° was investigated. The microstructure of the titanium alloys containing 2.08 % manganese and 1.95 % molyodenum, hardened at 900° and 1000° is shown by figure 8. Here the occurrence of the (3-phase is particularly marked. The microstructure

Card 3/4

Conditions for the Stabilization of the \(\bar{\} \)-Phase in Alloys of Titanium-Molybdenum-Manganese

SOV/78-4-5-26/46

of hardened titanium alloys containing 7.65 % manganese and 4.43 % molybdenum after heating for 64 hours at 600° and for 64 hours at 400° is shown by figure 10. The stability of the \$\beta\$-phase and the variation of hardness in titanium-molybdenum-manganese alloys are shown by figure 9 (a - e). The variation of the lattice parameter and the hardness of the \$\beta\$-phase by heating up to 500° and 500° is shown by figure 11 (a - b). In titanium alloys with 17.87 % manganese and 4.56 % molybdenum the \$\beta\$-phase becomes stabilized when heated from 100 - 500° in the course of 100 hours. There are 11 figures, 1 table, and 5 references, 2 of which are Soviet.

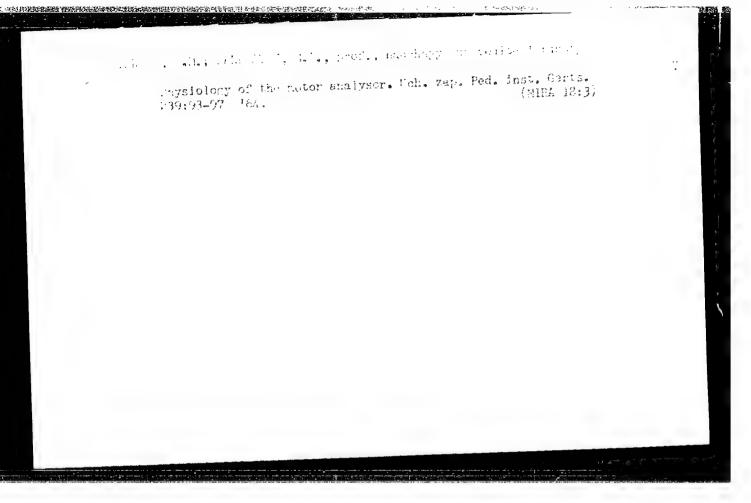
SUBMITTED:

February JL, 1958

Card 4/4

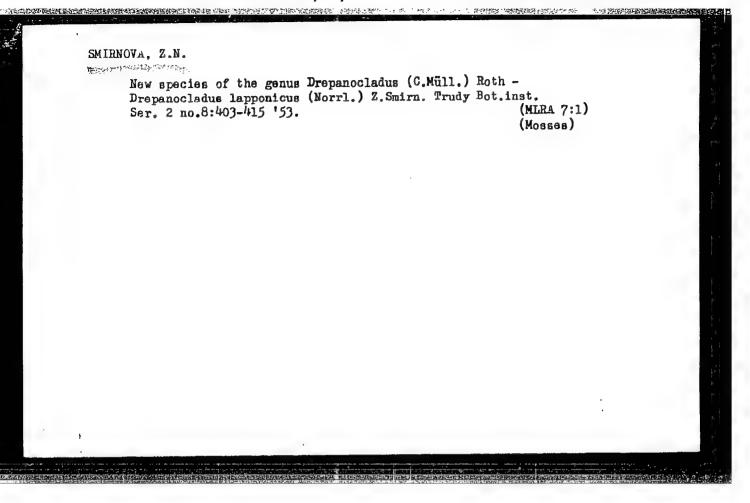
"APPROVED FOR RELEASE: 08/31/2001 C

CIA-RDP86-00513R001651710007-3



- 1. SMIRNOVA, Z. N.
- 2. USSR (600)
- 4. Mosses Kuril Islands
- 7. New species of the genus Drepanocladus from the Kuril Islands. Bot. mat. Otd. soor. rast. 8, 1952.

9. Monthly List of Russian Accessions, Library of Congress, April 1953, Uncl.



SMIRNOVA, Z.N. New varieties of species of the genus Drepanocladus (C.Müll.) Roth (Formse specierum novas generis Drepanocladus (C.Müll.) Roth). Bot.mat.Otd.spor.rast. 9:188-198 My '52. (MLRA 7:2) (Mosses)

BOGDANOV, P.L., professor [author]; SAVICH-LYUBITSKAYA, L.I.; SMIRNOVA, Z.N. [reviewers].

"Guide to forest sporophytes of the grass and moss cover." P.L.Bogdanov.
Reviewed by L.I.Savich-Liubitskaia, Z.N.Smirnova. Bot.zhur. 38 no.4:613-617 Jl-Ag '53.

(MLRA 6:9)

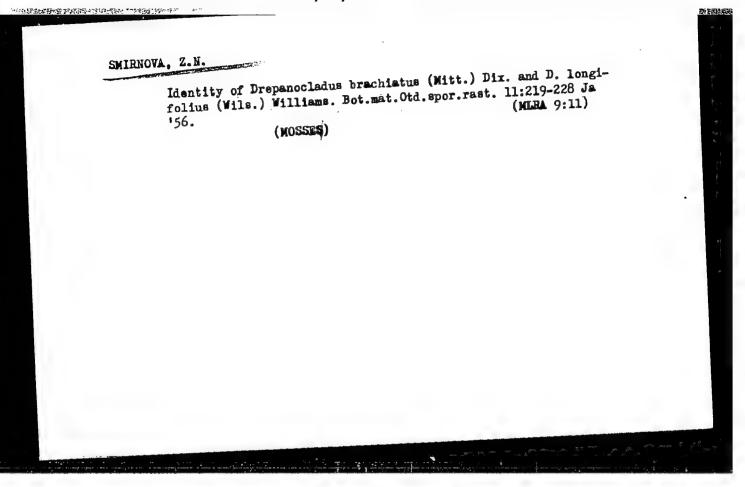
1. Botanicheskiy institut im. V.L. Komarova Akademii nauk SSSR, Leningrad (for Savich-Lyubitskaya and Smirnova).

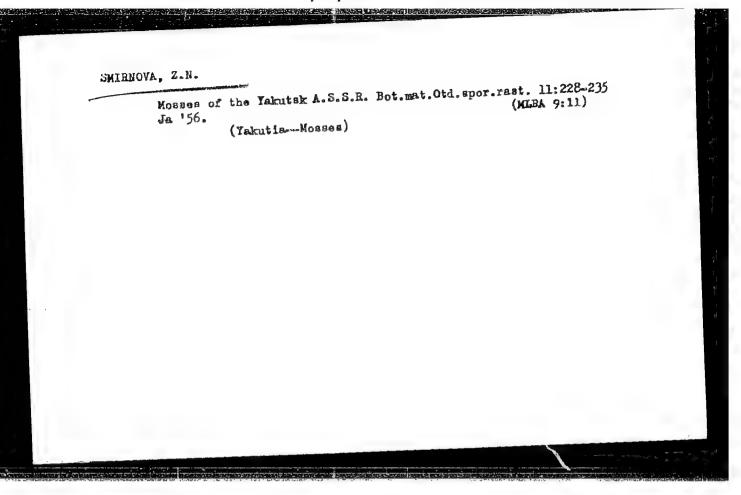
(Bogdanov, P.L.) (Mosses)

SMIRNOVA, Z. II. --

Dissertation: "The Genus Drepanocladus (C. Muell) Noth." (Short summary given.) Dr Biol Sci, Inst of Botany imeni V. L. Komarov, Acad Sci USSR, Jan-Mar 54 (Vestnik Akademii Nauk, Moscow, Aug 54)

SO: SUM 393 28 Feb 1955





SMIRNOVA, Z.N. Does Drepanocladus uncinatus (Hedw). Warnst.deserve to be established as an independent genus? Bot. zhur 41 no.10:1499-1503 0 156.

1. Botanicheskiy institut imeni V.L. Komarova Akademii nauk SSSR, Leningrad. (Mosses) (Botany--Classification)

(MIRA 10:1)

CIA-RDP86-00513R001651710007-3" APPROVED FOR RELEASE: 08/31/2001

ABRAMOVA, A.L.; SMIRNOVA, Z.N.

L.I. Savich-Liubitskaia; on her 70th birhday. Bot.zhur. 41 no.10:1555(MIRA 10:1)

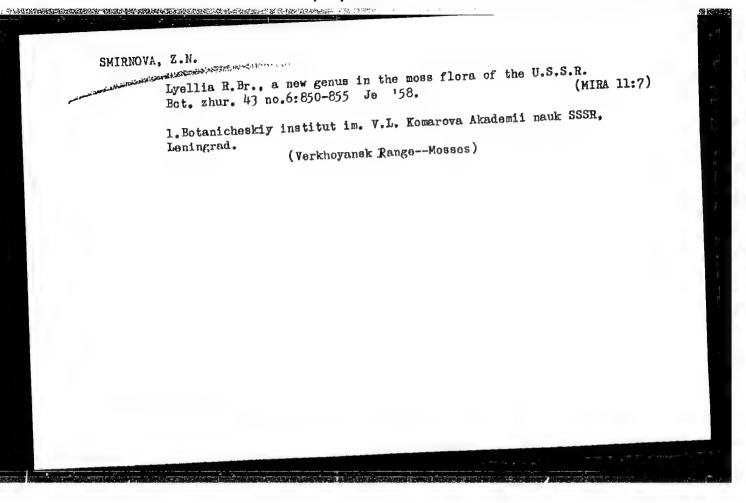
1. Botanicheskiy institut imeni V.L.Komarova Akademii nauk SSSR,
Leningrad.

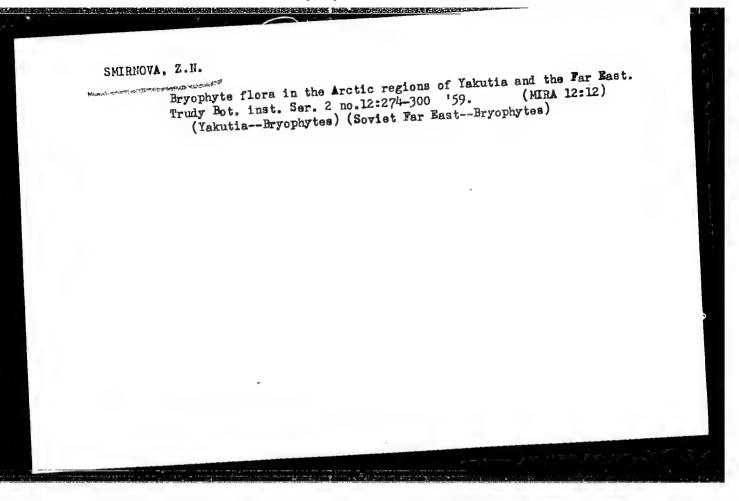
(Savich-Liubitskaia, Lidiia Ivanovan, 1886-)
(Bibliography--Mosses)

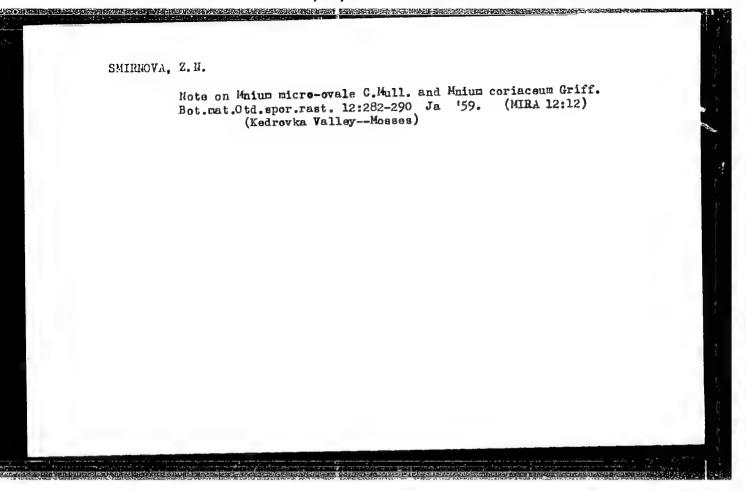
SMIRNOVA, Z.N.

"On the spore morphology of some Sphagnum species" (from "The Bryologist," 58, no.4, 1955). Bot.zhur. 42 no.3:479-480 Mr '57.

1. Botanicheskiy institut im. V.L. Komarova Akademii nauk SSSR, Leningrad. (Mosses) (Spores (Botany))







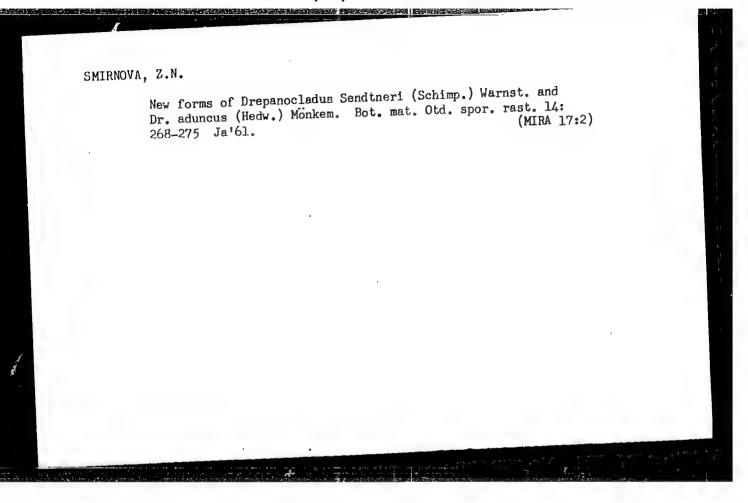
SAVICH-LYUBITSKAYA, L.I., doktor biol.nauk; SMIRNOVA, Z.N., doktor biol.nauk

A new variant of Bryum Korotkévicziae Sav.-Ljub.et Z.Smirn. Inform.biul.Sov.antark.eksp. no.17:2527 60. (MIRA 13:12)

1. Botanicheskiy institut AN SSSR.
(Bunger Hills region-Mosses)

ABRAMOVA, A.L.; SAVICH-INUBITSKAYA, L.I.; SMIRNOVA, Z.N.; SAVICH, V.P., doktor biolog. nauk, prof., zasl. deyatel nauki RSFSR, otv. red.; BOCHEVER, V.T., tekhn. red.

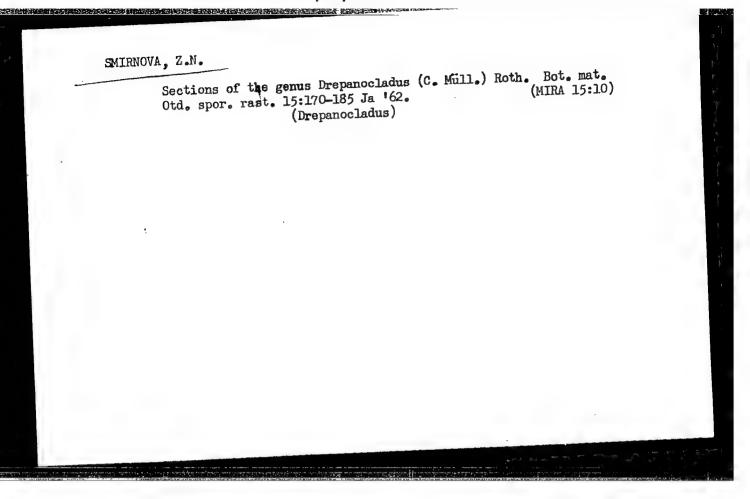
[Guide to the frondiferous mosses of the Arctic regions of the U.S.S.R.] Opredelitel' listostebel'nykh mkhov Arktiki SSSR. Pod red. L.I.Savich-Liubitskoi. Moskva, Izd-vo Akad.nauk SSSR, 1961. (MTRA 15:2)



SAVICE-LYBRITCHAYA, L.I.; SMIRNOVA, 2.7.

An embesic woss of Antarctica, Surveneum Plantale Thock, fil. of Vils.) Card. et Bryhn. Issl. fauny open. 1:205-300 162. (MIRA 17:0)

1. Botanicheskiy institut AN 898..



SAVICH-LYUBITSKAYA, L.I.; SMIRNOVA, Z.N.

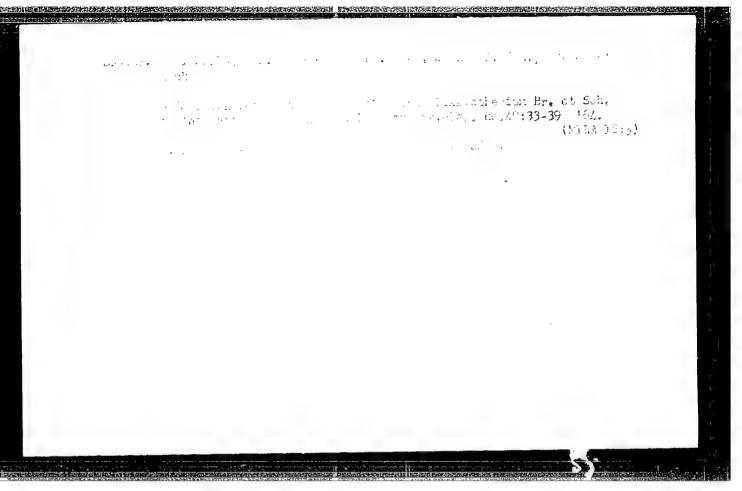
Representatives of the genus Pottia Fuernr. in Antarctica. Bot. mat. Otd. spor. rast. 16:188-195 '63. (MIRA 16:10)

SAVICH-LYUBITSKAYA, L. I.; SMIRNOVA, Z. N.

Biology and geography of Brycerythrophyllum recurvirostre (Hedw.) Chen, a new species in the moss flora of Antarctica. Bot. zhur. 48 no.3:350-361 Mr ¹63. (MIRA 16:4)

l. Botanicheskiy institut imeni V. L. Komarova AN SSSR, Leningrad.

(Antarctic regions-Mosses)



SMIRNOVA, Z.O., kand.med.nauk

Medicinal prevention of excessive hemorrhages in the placental and early pdstpartum periods. Ped., akush. i gin. 24 no.1: 49-51'62. (MIRA 16:8)

1. Otdel akusherstva i ginekologii (zav. - kand.med.nauk L.T. Volkova) Khar'kovskogo nauchno-issledovatel'skogo instituta okhrany materinstva i detstva (direktor - kand.med.nauk O.I. Kornilova).

(HEMORRHAGE, UTERINE)

87028

15.8106

S/190/60/002/007/010/017 B020/B052

AUTHORS:

Smirnova, Z. S., Serenkov, V. I.

TITLE:

The Mechanism of Thermal Hardening of Phenol-formaldehyde

Resins

PERIODICAL:

Vysokomolekulyarnyye soyedineniya, 1960, Vol. 2, No. 7,

pp. 1067-1070

TEXT: It was the purpose of this paper to study the behavior of hydroxyl groups in phenol by means of a stable isotope, during the hardening process of resolic phenol-formaldehyde resins. Therefore a resolic phenol-formaldehyde resin with a molar ratio of ${}^{c}_{6}{}^{H}_{5}{}^{OH}$: ${}^{c}_{1}{}^{C}_{2}{}^{O}$ = 6: 7 was pro-

duced in the presence of catalyst NaOH. The unreacted phenol and formaldehyde were precipitated by dissolving the resin in alcohol 8-10 times, and by pouring it into distilled water. At the same time, low-molecular condensation products were removed. Then the resin was dried until weight constancy was reached. It was analyzed and its content of free phenol and formaldehyde, hydroxyl and methylol groups, and the rate of hardening at

Card 1/3

The Mechanism of Thermal Hardening of Phenolformaldehyde Resins

6/02

S/

87028 \$/190/60/002/007/010/017 B020/B052

160°C were determined. The analyses were carried out according to the method of the analytical laboratory of NIIplastmass (Mauchno-issledovatel'-skiy institut plasticheskikh mass (Scientific Research Institute of Plastics)), and the results are given. On the basis of the papers by A. I. Brodskiy (Ref. 2), the hydrogen and the hydroxyl group of phenol was replaced by deuterium through rearrangement of the hydrogen. A resin was obtained with a 38-40% hydrogen substitution in the hydroxyl group of phenol. The deuterium content in water during the combustion of the resin was 0.8%. The results of the deuterium determination carried out by the spot method for the determination of its concentration variation during the resin hardening process (Table 1) show that water with an increased D₂0 content is separated during the hardening of phenol-formaldehyde

resols. The behavior of the hydroxyl groups of Novolak resins heated up to 350°C was also studied. Table 2 gives the change of the deuterium content in Novolak resins during heating. It shows that the hydroxyl group undergoes no changes when heated up to 180°C or even 250°C. Heating to 350°C increases the amount of liberated deuterium up to 19-20% of the original deuterium content in the resin. This is due to the noticeable

Card 2/3

87028

The Mechanism of Thermal Hardening of Phenolformaldehyde Resins S/190/60/002/007/010/017 B020/B052

destruction of the resin which also affects the hydroxyl groups. There are 2 tables and 13 references: 6 Soviet, 5 US, and 2 German.

ASSOCIATION: Nauchno-issledovatel'skiy institut plasticheskikh mass

(Scientific Research Institute of Plastics)

SUBMITTED: March 15, 1960

Card 3/3

1	KUZHETSOTA.	37	A	hra	SMIRNOVA	7	S	
1.	AUGICATOU A		Α.	HIIG	TAYVOULING.	و اث	ິ.	

- 2. USSR (600)
- 4, Microorganisms
- 7. Effect of hydrocarbonic microflora on the composition of the gas specimen. [Abstract] Izv.Glav.upr.geol.fon. no. 3, 1947.

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

- 1. KUZHATGOV, S. I. and KU METSOVA, V. A. and SMIRMOVA, Z. S.
- 2. USSR (600)
- 4. Microorganisms
- 7. Study of the processes of oxidation by bacteria of hydrocarbon gases under conditions of their diffusion through sedimentary rock. Izv. Glav. upr.geol.fon. no. 3, 1947.

9. Monthly List of Russian Accessions, Library of Congress, March 1953, Unclassified.

: USSR Country : Microbiology. Geological Activity of Microorganisms. Category : Ref Zhur-Siol., No 23, 1958, No 105687 Abs. Jour Author :Smirnova, Z. S. Institut. Determination of the Limit of Penetration of Bacteria Title From Clay Mortar into the Core of Different Rocks :Mikrobiologiya, 1957, 26, No 6, 745-749 Orig Rub. : Thuid from drilling a well during a search for oil Abstract contained a heterogeneous bacterial flora. In the clay mortar besteria were found which exidize liquid and gaseous hydrocarbons and hydrogen, which form methane from carbon dioxide and hydrogen, and also from fatty acids, which reduce sulfates and which decompose tissue, etc. For the purpose of establishing the limit of penetration of bacteria into the core, a culture of Bacterium prodigiosum was introduced into circulating clay mortar; this bacterium is usually not found in the core. It was established that the penotration of Bact, prodigiosum into the center of the core Card: 1/2 प-18

SMIRNOVA, Z.S.

Effect of microbiological processes on gas composition in drilling muds. Trudy VNIGNI no.11:176-184 '58. (MIRA 13:1) (Oil well drilling fluids) (Gas, Natural--Bacteriology)

TELEGINA, Z.P.; SMIRNOVA, Z.S.

Effect of organic substances on the intensity of propane oxidation in Mycobacterium lacticolum and Pseudomonas species. Trudy Inst. mikrobiol. no. 6:110-115 159. (MIRA 13:10)

SMIRROVA, Z.S.

Control method for a microbiological study of deep-seated rocks.

Geol. nefti i gaza 5 no.12:49-52 D '61. (MIRA 14:11)

1. Vsescyuznyy nauchno-issledovatel'skiy geologorazvedochnyy neftyanoy institut.

(Rocks, Sedimentary-Bacteriology)

SMIRNOVA, Z.S.

Relation of methane- and propane-oxidizing bacteria to different nitrogen sources. Mikrobiologiia 31 no.6:980-983 N-D '62. (MIRA 16:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy geologo-razvedochnyy neftyanoy institut, Moskva.
(MYCOBACTERIUM) (PSEUDOMONAS) (NITROGEN)

PATRIKEYEV, V.V.; SMIRNOVA, Z.S.; MAKSIMOVA, G.I.

Some biological properties of specifically formed silica gel.

Dokl. AN SSSR 146 no.3:707-709 S 162. (MIRA 15:10)

1. Institut organicheskoy khimii im. N.D.Zelinskogo AN SSSR. Představleno akademikom A.A.Balandinym. (Silica)

. 40821-65 EWT(m)/EPF(c)/EWP(j) Pc-4/Pr-4 RM/GS S/0000/64/000/000/0062/0066 ACCESSION NR: AT5008846 AUTHOR: Smirnova, Z. S. TITLE: Specificity of propane oxidizing bacteria SOURCE: Vsesoyuznyy nauchno-issledovatel'skiy institut yadernoy geofiziki i geokhimii. Pryamyye metody poiskov nefti i gaza; neftepoiskovaya geokhimiya (Direct methods of prospecting for oil and gas; oil prospecting geochemistry). Moscow, Izd-vo Nedra, 1964, 62-66 TOPIC TAGS: bacteriology, propane, oxidation, geochemistry ABSTRACT: Most anomalies in the distribution of propane oxidizing bacteria in the subterranean waters of various regions of the USSR coincide with petroleum and natural gas deposits. The author presents the results of research performed in 1960 at VNIGNI. In analyzing the physiology of the nutrition of propane oxidizing bacteria, the following topics were studied: a) the relationship of propane oxidizing bacteria to the organic source of carbon; b) the development of propane oxidizing bacteria in propane in the presence of organic matter; c) oxidizing of propane after cultivation in organic media. Experiments with nine pure cultures of Card 1/2

L 40821-65 ACCESSION NR: AT5008846

propane oxidizing bacteria have shown that 1) propane oxidizing bacteria are capable of multiplying on many organic substances, but prefer propane as a source of carbon; 2) addition of organic matter lowers the oxidizing capacity of these bacteria; 3) after lengthy presence in an organic media propane oxidizing bacteria loose their propane oxidizing characteristics; 4) all these characteristics indicate the specificity of propane oxidizing bacteria. The use of these microorganisms as indicators in oil and natural gas prospecting is recommended. Orig. art. has: 3 tables.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut yadernoy geofiziki i geokhimii (All-Union Scientific Research Institute of Geophysics and Geochemistry)

SUBMITTED: 10

10Sep64

ENCL: 00

SUB CODE: ES, FP

NO REF SOV: 007

OTHER: 004

رق

Card 2/2

L 41610-65

ACCESSION NR: AT5008847

S/0000/64/300/000/0067/0071

AUTHOR: Smirnova, Z. S.

g B+ i

TITLE: Microbiological investigation of surface deposits of the Korobki natural gas and oil fields

SOURCE: Vsesoyuznyy nauchno-issledovatel skiy institut yadernoy geofiziki i geokhimii. Pryamyye metody poiskov nefti i gaza; neftepoiskovaya geokhimiya (Direct methods of prospecting for oil and gas; oil prospecting geochemistry). Moscow, Izd-vo Nedra, 1964, 67-71

TOPIC TAGS: microbiology, oil, gas, bacteriology, geochemistry

ABSTRACT: The author investigates the theory that soils bearing hydrocarbon gases are most suitable for the development of hydrocarbon exidizing bacteria. Microbiological research of soil and subsoil deposits was done at the Korobki natural gas and oil fields of the Volgograd oblast. It was found that: 1) the number of saprophitic bacteria in the surface deposits cannot serve as a criterion for the oil and gas bearing characteristics of that area since this number depends to a great extent on the organic matter in the soil and on several other factors (moisture, lithological composition of the soil, etc.); 2) the distribution of hydro-

Card 1/2

L 41610-65

ACCESSION NR: AT5008847

carbon exidizing bacteria in surface deposits is connected with oil and natural gas phenomena: propane oxidizing bacteria are found only on the surface above oil and gas bearing strata, methane oxidizing bacteria are more widely distributed, but are also predominant in the gas and oil bearing strata; 3) the absence of propane and methane oxidizing bacteria in the surface deposits beyond the oil and gas strata where a large number of bacteria are observed growing on sarcopeptone agar, indicates the specificity of hydrocarbon oxidizing bacteria. Orig. art. has: 5 tables.

ASSOCIATION: none

SUBMITTED: 10Sep64

ENCL: 00

SUB CODE: ES, LS

NO REF SOV: 004

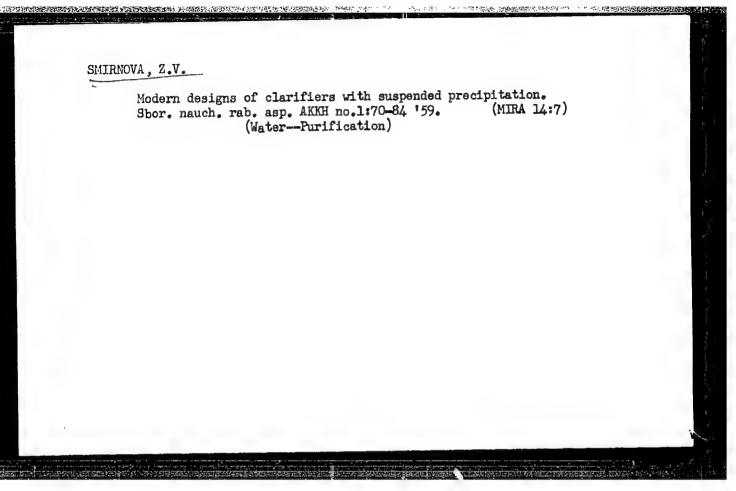
OTHER: 002

Card 2/2 JO

SMIRNOVA, Z.S.

Methods of quantitative assay of hydrocarbon exidizing bacteria. Mikrobiologiia 33 no.4:737-738 Jl-Ag '64. (MIRA 18:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut yadernoy geofiziki i geokhimii (VNIIYaGG).



DELYAGIN, G.N.; SMIRNOVA, Z.V.

Determination of the dispersity and moisture content of water-coal suspensions. Trudy IGI 19:138-123 '62. (MIRA 16th) (Coal) (Sedimentation analysis) (Moisture-Measurement)

SMIRMOVA, Z. V.

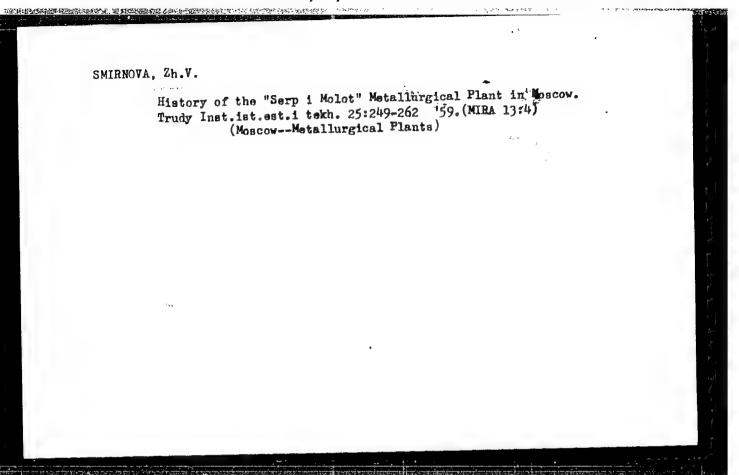
Cand Med Sci - (diss) "Study of the function of the pancreas in patients with ulcerous affection of the stomach and the ducdenum and chronic gastritis before and after conservative treatment." Sverdlovsk, 1961. 11 pp; (Sverdlovsk State Med Inst); 260 copies; price not given; (KL, 7-61 sup, 262)

Withhill, 3.1. Branching, 7.v.; Farggar, M.I.; Chiraldia, 2.V.

a maintion of alkylmophthalouss. Meflekhiming 5 no.6:856-862
(M.R. 19:2)

1. Nothing-isologovateliskiy institut moreomerov dlya sintetichi savat kauchida i Yaroslavskiy takhnologicheskiy institut.
(M.R. 19:2)

1. Nothing Residual i Yaroslavskiy takhnologicheskiy institut.
(M.R. 19:2)



KARABASH, A.G.: PRYZULAYEV, Sh.I.: SLTUSAREVA, R.L.: SOTHIKOVA, H.P.:
SHIRROYA AVERUMA. M.I.: SAMSONOVA, Z.M.: KRAUZ, L.S.: MCROZOVA, G.G.:
SHIRROYA AVERUMA. M.I.: LIPATOVA; V.M.: SAZANOVA, S.K.:
PUGACHEVA, L.I.: USACHEVA; V.P.: VORONOVA, Ye.P.: GORRACHEV, P.D.:
KOSTAREVA, F.A.: KOSTEREVA, N.T.: YELOVATSKAYA, A.T.: KUZMETSOVA, N.N.
Spectrochemical analysis of pure metals for impurities. Piz.
shor. no.4:556-562 *58.

(Spectrochemistry)

(Spectrochemistry)

AUTHORS:

32-24-6-19/44 Peyzulayev, Sh.I., Karabash, A.G., Krauz, L.S.,

Kostareva, F.A., Smirnova-Averina, N.I.,

Babina, F.L., Kondrag yera, L.I., Voronova, Ye.F.,

Meshkova, V.M.

TITLE:

Spectral Methods for the Determination of Admixture Traces

(Spektzal'nyye metody opredeleniya sledov primesey).

I. Chemical Spectral Methods of Analyzing Strontium, Chromium, and Silicon (I. Khimiko-spektral nyye metody analiza strontsiva, khroma i kremniya), II. The Quantitative Spectral Analysis of

Water and Microsamples on the Basis of Strontium Nitrate (II. Kolichestvennyy spektral nyy analiz wody i mikroobraztaov

na osnove nitrata strontsiya)

PERIODICAL:

Zavodskays Laboratoriya, 1958, Vol 24, Nr 6, pp 723-731 (USSR)

ABSTRACT:

In the course of the present work analysis methods are investigated in which sensitivity is increased by previous enrichment and which make it possible to determine a larger number of admixtures. From the analysis of strontium, which is described in detail, it follows that determination is based upon a formation of strontium

Card 1/4

sulfate and that 18 elements can be determined by means of one

Spectral Methods for the Determination of Admirture Traces.

I. Chemical Spectral Methods of Analyzing Strontium,
Chromium, and Silicon. II. The Quantitative Spectral Analyzis
of Water and Microsamples on the Basis of Strontium Nitrate

32-24-6-19/44

spectrogram, in which case sodium is determined separately. Analysis sensitivity is shown by a table, and the preparation of samples and the spectral analysis itself are described. From the data concerning the determination of chromium it follows e.g., that chromium is volatilized in form of 0r02Cl2, that practically complete (99.7%) wolatilization is attained at 200-2200, and that at the same time only arsenic, boron, germanium, tin, and mercury are removed. In the case of a low content of admixtures analysis was carried out already after the first concentration, whereas in the case of a higher percentage $(10^{-4} - 10^{-2}\%)$ also the second concentrate was examined. The analysis is described. The analysis of silicon is based upon its volatilization in form of fluorides; also in this case the concentrate of the admixtures is produced on the basis of a spectrally pure strontium sulfate, and also in this case 18 elaments can be determined simultaneously by means of one spectrogram, sodium being determined separately. The process of analysis is described, and it is said, among other things, that the method was weaked out in 1955 for the

Card 2/4

Spectral Methods for the Determination of Admixture Traces. I. Chemical Spectral Methods of Analyzing Strontium, Chromium, and Silicon. II. The Quantitative Spectral Analysis of Water and Microsamples on the Basis of Strontium Nitrate 32-24-6-19/44

determination of elementary silicon. II. The method is based upon application of the sample solution on to spectrally pure strontium nitrate powder, drying, and spectral analysis; it is possible, on the one hand, to examine the organic impurities existing in water, and, on the other, to analyze the composition of various microsamples. In the analysis of water it is possible to determine 12 elements by means of one spectrogram, including the ordinary admixtures found in water as well as corrosion products. The process of analysis is described as well as the manner in which etalons and the spectrally pure strontium nitrate are prepared. By the method described it is possible to determine 26 elements by the analysis of microsamples. Analysis is described, and it is said, among other things, that the relative sensitivity in determining components and admixtures depends on the weighed in portion of the microsample and the strontium nitrate; corresponding data are given by a table. By comparative determinations carried out on a strontium nitrate-

Card 3/4

"APPROVED FOR RELEASE: 08/31/2001 CIA-

CIA-RDP86-00513R001651710007-3

Spectral Methods for the Determination of Admixture Traces.

I. Chemical Spectral Methods of Analyzing Strontium,
Chromium, and Silicon. II. The Quantitative Spectral Analysis of Water and Microsamples on the Basis of Strontium Nitrate

32-24-6-19/44

and beryllium oxide basis the fact was established that both varieties of the method work with a relative error of \pm 15-20%, and that frequently a weighed portion of 0.1-50 mg is sufficient. There are 2 figures, 6 tables, and 14 references, 6 of which are Soviet.

- 1. Spectrum analyzers--Performance 2. Minerals--Analysis
- 3. Minerals--Determination 4. Water--Impurities 5. Water
- -- Spectra 6. Strontium nitrate spectrum-- Applications

Card 4/4

projectomatical, interpretability. The actions into that it may applicate control of high strip. The actions into that it is not been southed have been southed been southed been proposed that the personalist is neveral defences, assid is never, and the personalist is never been defences, assid is never, and the personalist is never been defences, assid is never, and and the personalist is never been defences, assid is never been defences, assid is never, and the defences of the never been defences, assid is never been defenced by the never been defended by the never been defenced b			TI(7.	7	· ·	フ	 .	Patermination of Leas, Connects, Statistical Assessment With the Aid of Geofflographic Polariography	Application Dall, Tall Collisions, and L.K. Borlson, Mettod of Direct Defendant of Dall Call, Calling Blanch, Adiabout, and The la Molyndenum Defendant of Anna Calling Call Calling Calling and The Calling Calling Calling		December of Calaius, Actaory, Bicata, Lead, and Ita to Dugates and in Molyndams	Termination of Adalatures in Tungates Compounds				0 1	Shayshorm, S.I., and Ch.Ya. Erol'. Determination of Americaes or Asternory, Inco., Manganese, and fallurium in M. saute	Sargatore, 5.1., sed Lish. Tree town. Scientist of the Aid of Dictatore 191 Chains, 511ver, and Cold in Weighting Binauth '2.th the Aid of Dictatore 191					Sorter union and personnel and the south for Determining	been developed within the last five or eig years by whoshoul some examination is instituted and the second substitutes of the second substitutes of the second substitutes and second substitutes are sectioned. Noterances, mostly flurier,	United and their traces in pure setals. Also discussed are many cursions, projections and their extensions and indicatence and their projections and indicatence and their projections are actively and purity. The editors state that there actively have	FURCHER The consecuent and the consecuent and determining various ad-	Sciences; Zd. of Publishing Souse; N.F. Volyment, Jeun.	Resp. Eds.: A.P. Vinogrador, Academician, and D.F. Rybichikov, Doctor of Chemical	. Metody operationlys primersy vicinity maintain. (the Truly, 12) 3,500 tures in Pure Metals) Moscov, 1960, 411 p. (Series: Ite: Truly, 12) 3,500 copies printed.	Akadeniya mank SSSR. Komissiya yo amaliticheskoy khimil Akadaniya mank SSSR.	PHASE I BOOK KEPLOIDALICH SOF/4443			म व व न नहां स स स ह है है है है है है है है है	MARKET DOOK ETHOLOGY OF ALLY DO SETHIOLOGY DESIGNATION AND CONTRACTION OF ALLY APPROACH PRINCIPAL AND CONTRACTION OF ALLY APPROACH PRINCIPAL AND CONTRACT AND CON
--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	-----	----	---	-----	----------	-----------	------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	--	---------------------------------------------------------------------------------	-------------------------------------------------	--	--	--	-----	-------------------------------------------------------------------------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------	--	--	--	--	----------------------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------	---------------------------------------------------------	-----------------------------------------------------------------------------------	-------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------------------------------------------------------------------	------------------------------------	--	--	-------------------------------------------------	--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------

KARABASH, A.G.; SAMSOHOVA, Z.N.; SMIRHOVA-AVERINA, N.I.; PETZUIAYEV, Sh.I.

Impurities determination in molybdenum and its compounds. Trudy Kom.
anal. khim. 12:255-264 '66. (MIRA 13:8)

(Molybdenum-Analysis) (Spectrum analysis)

SMIRNOVA-GARAYEVA, N.V.

Effect of a protective forest plantation on the development of cotton plants. Bet. shur. 40 no.5:738-739 S-0 '55. (MLRA 9:4)

1. Krivereshskiy gesudarstvennyy pedagegicheskiy institut, g. Krivey Reg. (Cetten) (Windbreaks, shelterbelts, etc.)